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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/249,011DATE: 08/02/1999
TIME: 12:09:27

Input Set: I249011.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

<110> APPLICANT: Co, Man Sung
Vasquez, Maximiliano
Carreno, Beatriz
Celniker, Abbie Cheryl
Collins, Mary
Goldman, Samuel
Gray, Gary S.
Knight, Andrea
O'Hara, Denise
Rup, Bonita
Veldman, Geertruida M.
<120> TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH
B7-2 AND METHODS OF TREATMENT THEREWITH
<130> FILE REFERENCE: GI-5315
<140> CURRENT APPLICATION NUMBER: US/09/249,011
<141> CURRENT FILING DATE: 1999-02-12
<160> NUMBER OF SEQ ID NOS: 20
<170> SOFTWARE: FastSEQ for Windows Version 3.0
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<222> LOCATION: (1)...(405)
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1 5 10 15	
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Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg	
20 25 30	
cct ggg gaa tca gtg aag att tcc tgc aag ggt tcc ggc tac aca ttc	144
Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe	
35 40 45	
act gat tat gct ata cag tgg gtg aag cag agt cat gca aag agt cta	192
Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu	
50 55 60	
gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac	240
Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asn Thr Asn Tyr Asn	
65 70 75 80	
cag aag ttt aag ggc aag gcc aca atg act gta gac aaa tcc tcc agc	288
Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser	

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47  Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile
48          100          105          110
49  tat tac tgt gca aga gcg gcc tgg tat atg gac tac tgg ggt caa gga      384
50  Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
51          115          120          125
52  acc tca gtc acc gtc tcc tca      405
53  Thr Ser Val Thr Val Ser Ser
54          130          135
55 <210> SEQ ID NO 2
56 <211> LENGTH: 135
57 <212> TYPE: PRT
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63          20          25          30
64  Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe
65          35          40          45
66  Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu
67          50          55          60
68  Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
69          65          70          75          80
70  Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser
71          85          90          95
72  Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile
73          100          105          110
74  Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
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76  Thr Ser Val Thr Val Ser Ser
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84 <222> LOCATION: (1)...(396)
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88  1          5          10          15
89  ggt acc tgt ggg gac att gtg ctg tca cag tct cca tcc tcc ctg gct      96
90  Gly Thr Cys Gly Asp Ile Val Leu Ser Gln Ser Pro Ser Ser Leu Ala
91          20          25          30
92  gtg tca gca gga gag aag gtc act atg agc tgc aaa tcc agt cag agt      144
93  Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
94          35          40          45

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95      ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag      192
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97          50                      55                      60
98      aaa cca ggg cag tct cct aaa ctg ctg atc tac tgg gca tcc act agg      240
99      Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
100         65                      70                      75                      80
101     gaa tct ggg gtc cct gat cgc ttc aca ggc agt gga tct ggg aca gat      288
102     Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
103                     85                      90                      95
104     ttc act ctc acc atc agc agt gtg cag gct gaa gac ctg gca gtt tat      336
105     Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr
106                     100                      105                      110
107     tac tgc acg caa tct tat aat ctt tac acg ttc gga ggg ggg acc aag      384
108     Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Gly Thr Lys
109                     115                      120                      125
110     ctg gaa ata aaa      396
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112         130
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116 <213> ORGANISM: Murine anti-B7-2 light chain
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121                     20                      25                      30
122     Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
123                     35                      40                      45
124     Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
125         50                      55                      60
126     Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
127         65                      70                      75                      80
128     Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
129                     85                      90                      95
130     Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr
131                     100                      105                      110
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139 <213> ORGANISM: Humanized murine anti-human B7-2 heavy chain
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145      Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly
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148      Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
149              20              25              30
150      cct ggg agc tca gtg aag gtg tcc tgc aaa gct tcc ggc tac aca ttc      144
151      Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
152              35              40              45
153      act gat tat gct ata cag tgg gtg aga cag gct cct gga cag ggc ctc      192
154      Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
155              50              55              60
156      gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac      240
157      Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
158              65              70              75              80
159      cag aag ttt aag ggc aag gcc aca atg act gta gac aag tcg acg agc      288
160      Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
161              85              90              95
162      aca gcc tat atg gaa ctt agt tct ttg aga tct gag gat acg gcc gtt      336
163      Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
164              100              105              110
165      tat tac tgt gca aga gcg gcc tgg tat atg gac tac tgg ggt caa ggt      384
166      Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
167              115              120              125
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172 <211> LENGTH: 135
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174 <213> ORGANISM: Humanized murine anti-human B7-2 heavy chain
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179              20              25              30
180      Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
181              35              40              45
182      Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
183              50              55              60
184      Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
185              65              70              75              80
186      Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
187              85              90              95
188      Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
189              100              105              110
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193              130              135
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205     ggc acc tgt ggg gac att gtg ctg aca cag tct cca gat tcc ctg gct      96
206     Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
207             20             25             30
208     gta agc tta gga gag agg gcc act att agc tgc aaa tcc agt cag agt     144
209     Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
210             35             40             45
211     ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag     192
212     Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
213             50             55             60
214     aaa cca ggg cag cct cct aaa ctg ctg atc tac tgg gca tcc act agg     240
215     Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
216             65             70             75             80
217     gaa tct ggg gtc cct gat cgc ttc agt ggc agt gga tct ggg aca gat     288
218     Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
219             85             90             95
220     ttc act ctc acc atc agc agt ctg cag gct gaa gac gtg gca gtt tat     336
221     Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
222             100            105            110
223     tac tgc acg caa tct tat aat ctt tac acg ttc gga cag ggg acc aag     384
224     Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys
225             115            120            125
226     gtg gaa ata aaa                                           396
227     Val Glu Ile Lys
228             130
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230 <211> LENGTH: 132
231 <212> TYPE: PRT
232 <213> ORGANISM: Humanized murine anti-human B7-2 light chain
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235     1             5             10             15
236     Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
237             20             25             30
238     Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
239             35             40             45
240     Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
241             50             55             60
242     Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
243             65             70             75             80
244     Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp

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VERIFICATION SUMMARY
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Line ? Error/Warning

Original Text
